



## Chapter 4

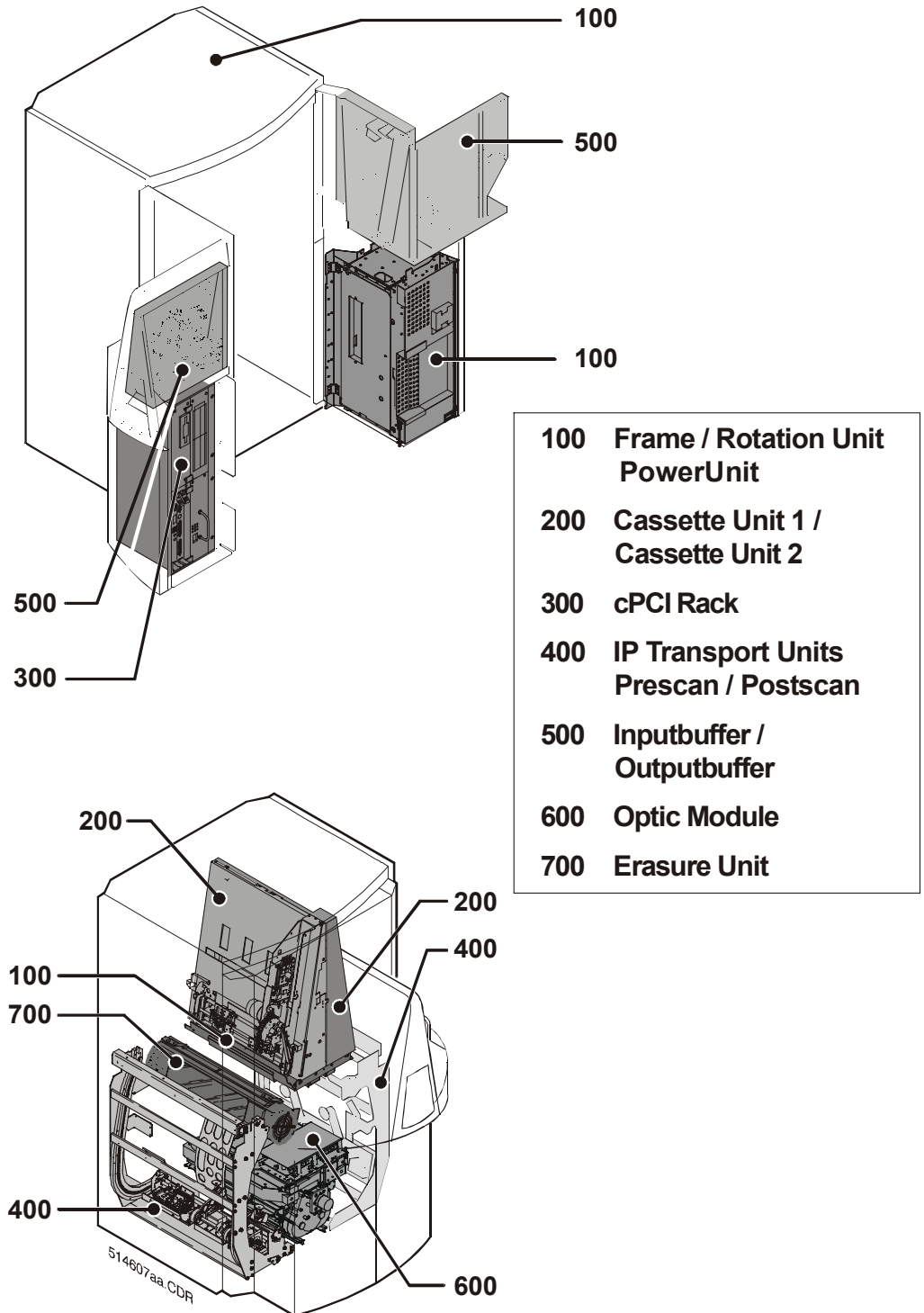
### List of Contents

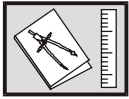
<b>A</b>	<b>Identification Diagrams.....</b>	<b>1</b>
1	Units of the ADC Compact Plus Digitizer (Overview).....	1
2	Frame / Rotation Unit (Assembly No. 100).....	2
3	Power Unit (Assembly No. 100).....	4
4	Cassette Modul 1 (Assembly No. 200) .....	6
5	Cassette Modul 2 (Assembly No. 200) .....	8
6	cPCI – Rack (Assembly No. 300) .....	10
7	IP – Transport Unit Prescan (Assembly 400).....	12
8	IP – Transport Unit Postscan (Assembly 400).....	14
9	Input Buffer (Assembly 500) .....	16
10	Output Buffer (Assembly 500) .....	18
11	Operation Terminal (Assembly 500).....	20
12	Optic Module – Top View (Assembly 600) .....	22
13	Optic Module – Bottom View (Assembly 600) .....	24
14	Erasur Unit (Assembly 700) .....	26
<b>B</b>	<b>Circuit Diagrams of ADC Compact Plus Digitizer ....</b>	<b>27</b>



## A Identification Diagrams

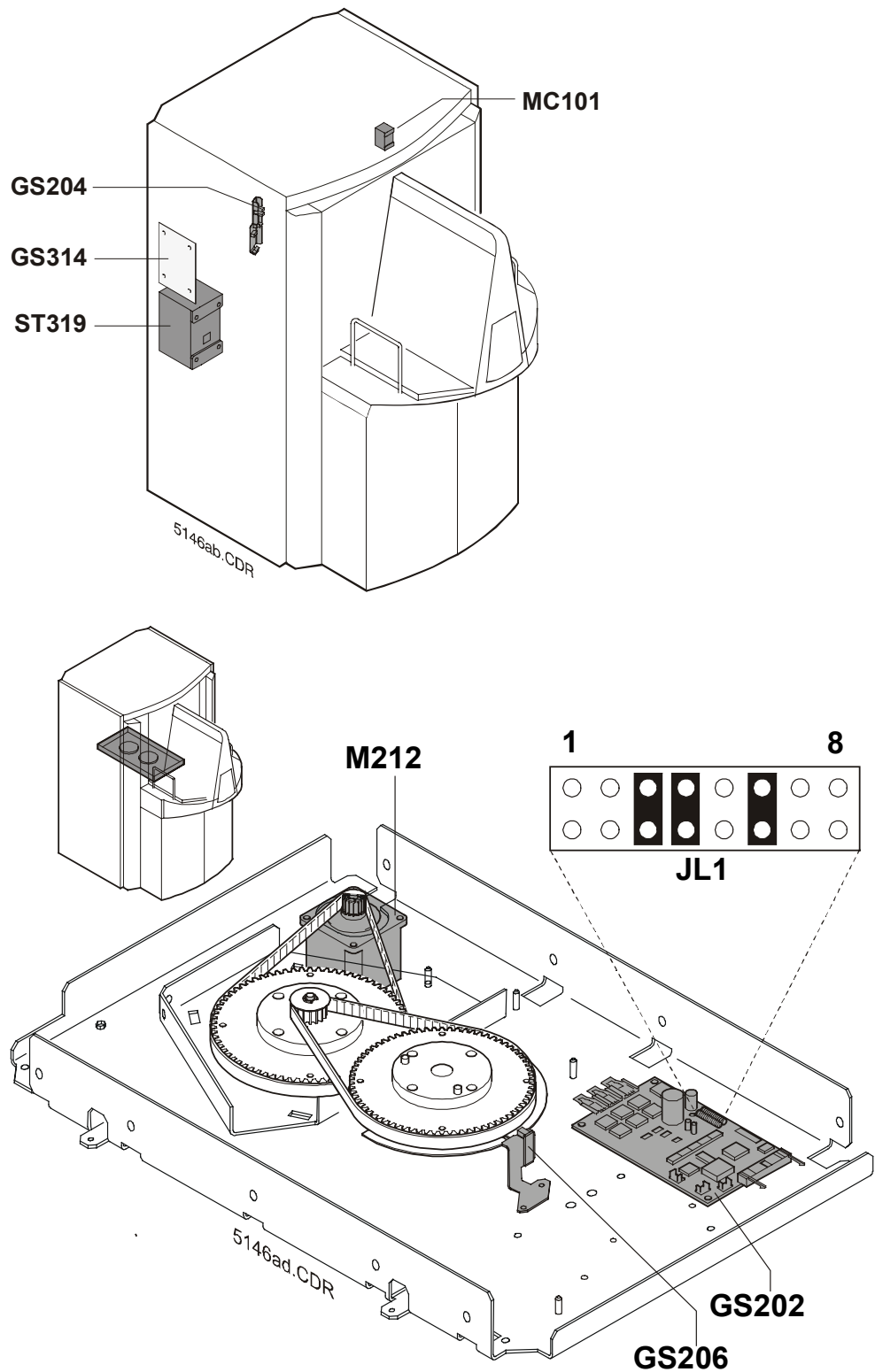
### 1 Units of the ADC Compact Plus Digitizer (Overview)





## 2 Frame / Rotation Unit (Assembly No. 100)

### 2.1 Diagram

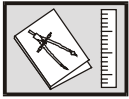




## 2.2

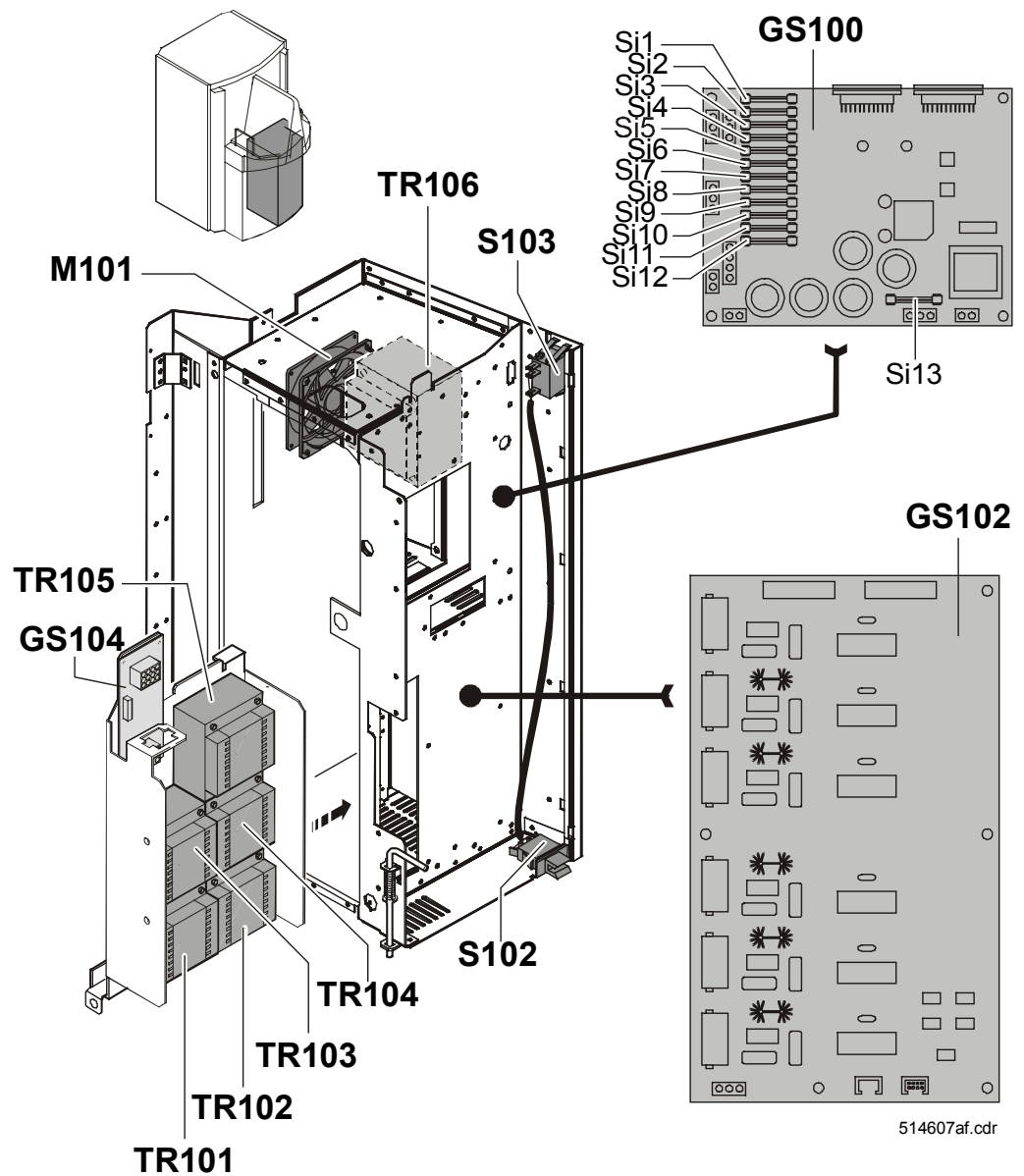
## Table of Components

Ass.	Abbreviation	Designation (also used by Diagnosis Mode)	Function	Circuit diagram page/ coord.
100	GS202	ROTATION-BD	Rotation unit stepper motor control board	2/C1–E1
100	GS204	ROT-WORKPOS-LS	Rotation unit workposition (light barrier)	2/F1
100	GS206	ROTAT-O-POS-LS	Rotation unit home-position (light barrier)	2/F1
100	MC101	LINE-FILTER	2-phase line filter for power supply	1/A6–B6
100	M212	ROTATION DRIVE	Motor for rotation unit	2/B1
300	GS314	IOBUS-DISTRIB. (see pages 10/11)	I/O-BUS distributor board	3/G5–G6
300	ST319	ETHERNET (see pages 10/11)	Ethernet connector	3/H2



### 3 Power Unit (Assembly No. 100)

#### 3.1 Diagram





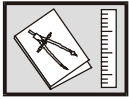
## 3.2

## Table of Components

Ass.	Abbreviation	Designation (also used by Diagnosis Mode)	Fuse	Quality
100	GS100	M-S-BOARD	SI 1 SI 2 SI 3 SI 4 SI 5 SI 6 SI 7 SI 8 SI 9 SI 10 SI 11 SI 12 SI 13	T 2.5A T 2.5A T 2.5A T 1A T 1A T 1A T 1A T 1A T 1A T 1A T 1A T 1A T 2.5A

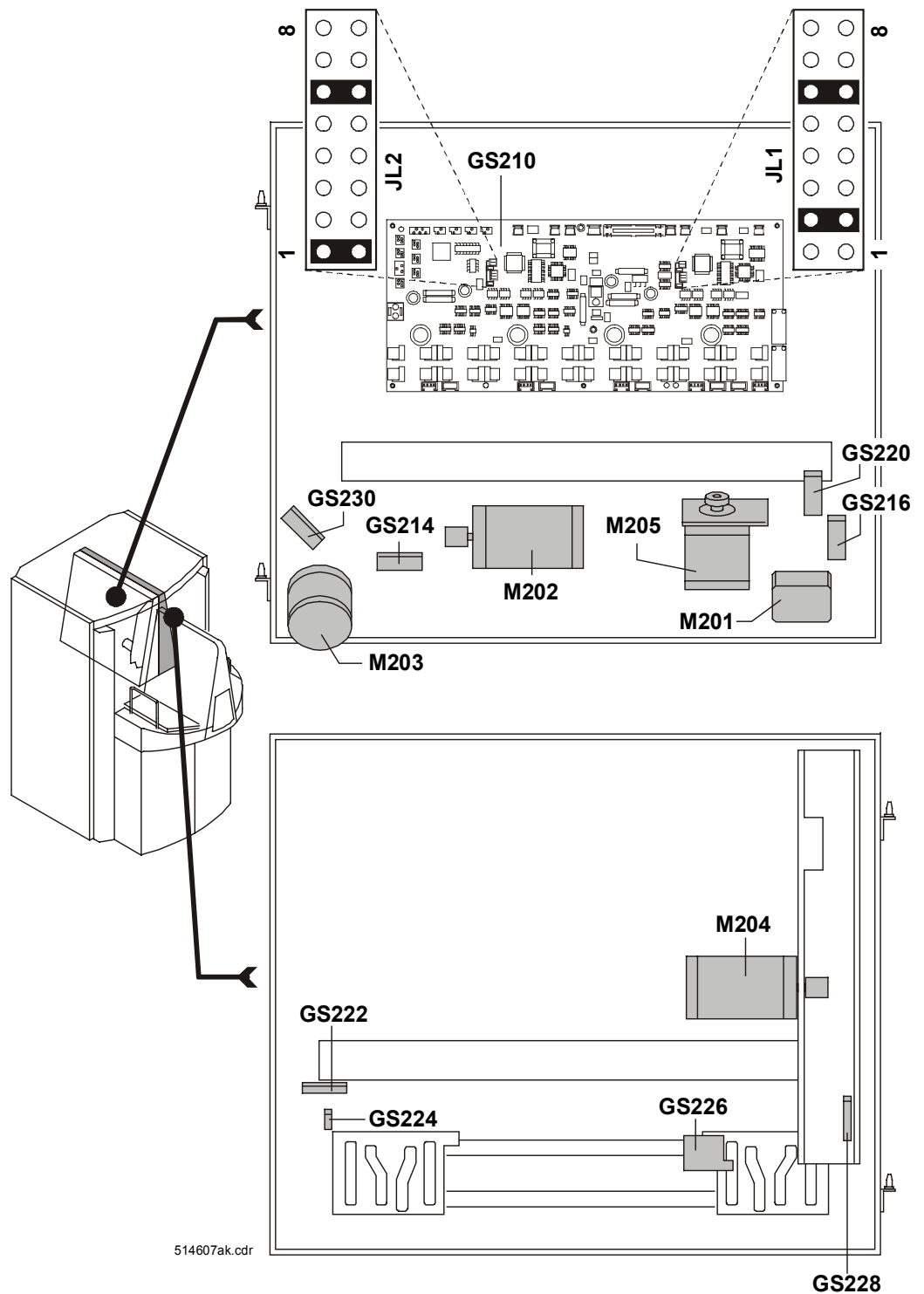
→M-S\_Board on circuit diagram page 1, coord.B/C1 – B/C4

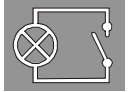
Ass.	Abbreviation	Designation (also used by Diagnosis Mode)	Function	Circuit diagram page/ coord.
100	TR101	Transformer	Erasure Transformer Unit	1/F5
100	TR102	Transformer	Erasure Transformer Unit	1/F4
100	TR103	Transformer	Erasure Transformer Unit	1/F4
100	TR104	Transformer	Erasure Transformer Unit	1/F3
100	TR105	Transformer	Erasure Transformer Unit	1/F2
100	TR106	Transformer	Erasure Transformer Unit	1/F2
100	GS102	ERASURE-CTRL-BD	Erasure control board	1/E1–E6
100	GS104	CURRENT-SENSE	Current Sense Board for Erasure Unit	1/H3–H4
100	M101	POWER-UNIT-FAN	Power Unit Fan	1/D1
100	MC101	LINE FILTER	2-phase Line Filter	1/A6–B6
100	S102	INTERLOCK	Safety switch	1/D6
100	S103	MAIN SWITCH	Main Switch	1/C6



## 4 Cassette Module 1 (Assembly No. 200)

### 4.1 Diagram

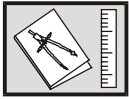




## 4.2

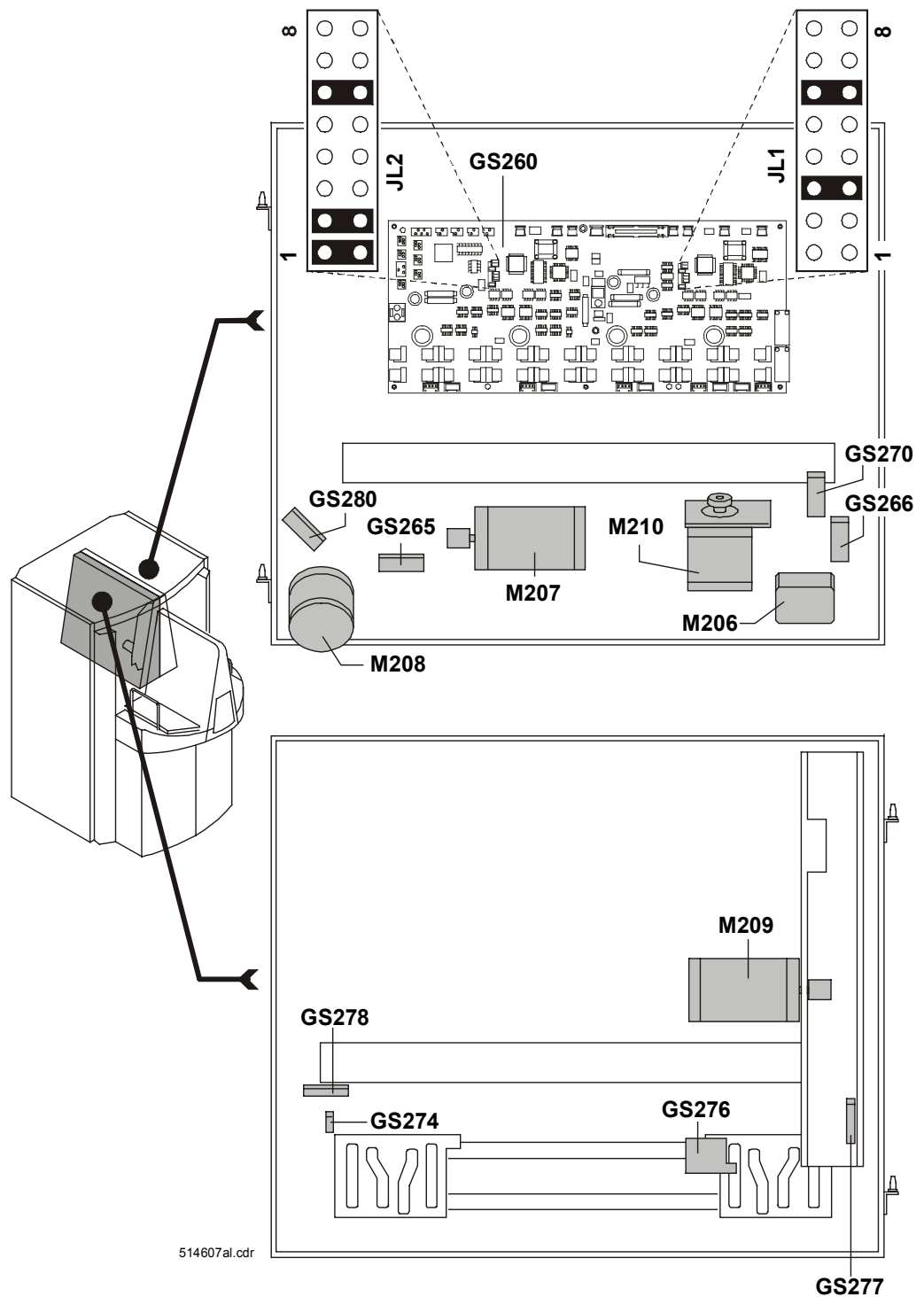
## Table of Components

Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
200	M201	CASS1-ROLLER-MOT	Cassette Module 1: Roller Motor	2/B2–B3
200	M202	CASS1-LIFT-MOT	Cassette Module 1: Lift Motor	2/C2–C3
200	M203	CASS1-CLAMP-MOT	Cassette Module 1: Clamp Motor	2/D2–D3
200	M204	CASS1-OPENER-MOT	Cassette Module 1: Opener Motor	2/B2–B3
200	M205	CASS1-BELT-MOT	Cassette Module 1: Belt Motor	2/D2–D3
200	GS210	5FOLD-ST-CASS1	Cassette Module 1: 5fold stepper motor board	2/B4–E5
200	GS214	CASS1-LIFT-O-LS	Cassette Module 1: Lift-homeposition (light barrier)	2/D6
200	GS216	CASS1-IN-DET-LS (receiver)	Cassette Module 1: Cassette Detection (light barrier)	2/C6
200	GS220	CASS1-BELT-O-LS	Cassette Module 1: Belt-homeposition (light barrier)	2/E6
200	GS222	CASS1-IN-DET-LS (transmitter)	Cassette Module 1: Cassette Detection (light barrier)	2/B6–C6
200	GS224	CASS1-CLAMP-O-LS	Cassette Module 1: Clamp-homeposition (light barrier)	2/D6
200	GS226	CASS1-SWITCH	Cassette Module 1: Cassette Stop Switch	2/B6
200	GS228	CASS1-OPEN-O-LS	Cassette Module 1: Open-homeposition (light barrier)	2/B6
200	GS230	CASS1-CLAMP-LS	Cassette Module 1: Clamp-position (light barrier)	2/C6



## 5 Cassette Module 2 (Assembly No. 200)

### 5.1 Diagram

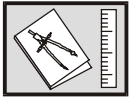




## 5.2

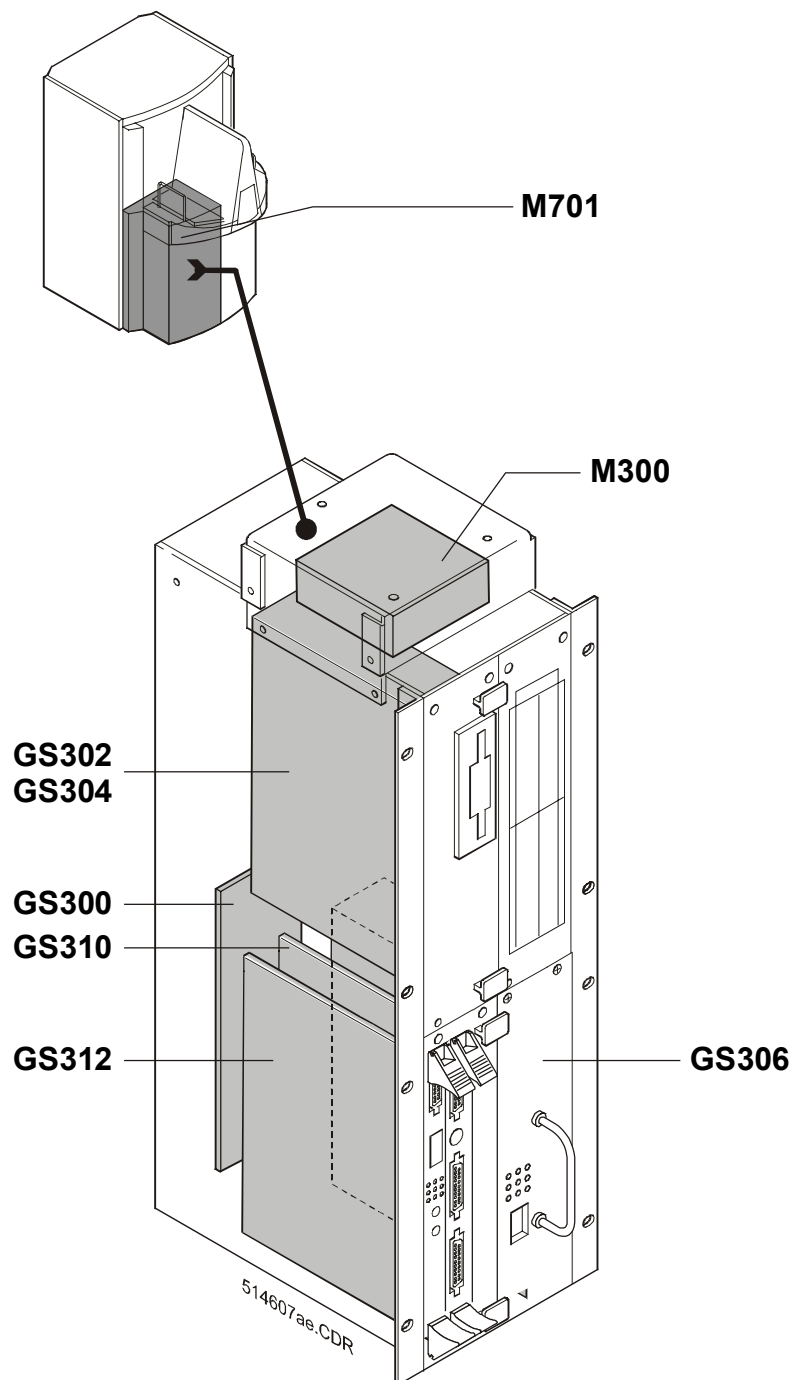
## Table of Components

Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
200	M206	CASS2-ROLLER-MOT	Cassette Module 2: Roller Motor	2/F2–F3
200	M207	CASS2-LIFT-MOT	Cassette Module 2: Lift Motor	2/G2–G3
200	M208	CASS2-CLAMP-MOT	Cassette Module 2: Clamp Motor	2/H2–H3
200	M209	CASS2-OPEN-MOT	Cassette Module 2: Opener Motor	2/F2–F3
200	M210	CASS2-BELT-MOT	Cassette Module 2: Belt Motor	2/H2–H3
200	GS260	5FOLD-ST-CASS2	Cassette Module 2: 5fold stepper motor board	2/F4–H5
200	GS265	CASS2-LIFT-O-LS	Cassette Module 2: Lift-homeposition (light barrier)	2/H6
200	GS266	CASS2-IN-DET-LS (receiver)	Cassette Module 2: Cassette Detection (light barrier)	2/G6
200	GS270	CASS2-BELT-O-LS	Cassette Module 2: Belt-homeposition (light barrier)	2/H6
200	GS274	CASS2-CLAMP-O-LS	Cassette Module 2: Clamp-homeposition (light barrier)	2/H6
200	GS276	CASS2-SWITCH	Cassette Module 2: Cassette Stop Switch	2/F6
200	GS277	CASS2-OPEN-O-LS	Cassette Module 2: Open-homeposition (light barrier)	2/F7
200	GS278	CASS2-IN-DET-LS (transmitter)	Cassette Module 2: Cassette Detection (light barrier)	2/F6–G6
200	GS280	CASS2-CLAMP-LS	Cassette Module 2: Clamp-position (light barrier)	2/G6



## 6 cPCI – Rack (Assembly No. 300)

### 6.1 Diagram

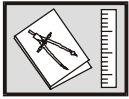




## 6.2

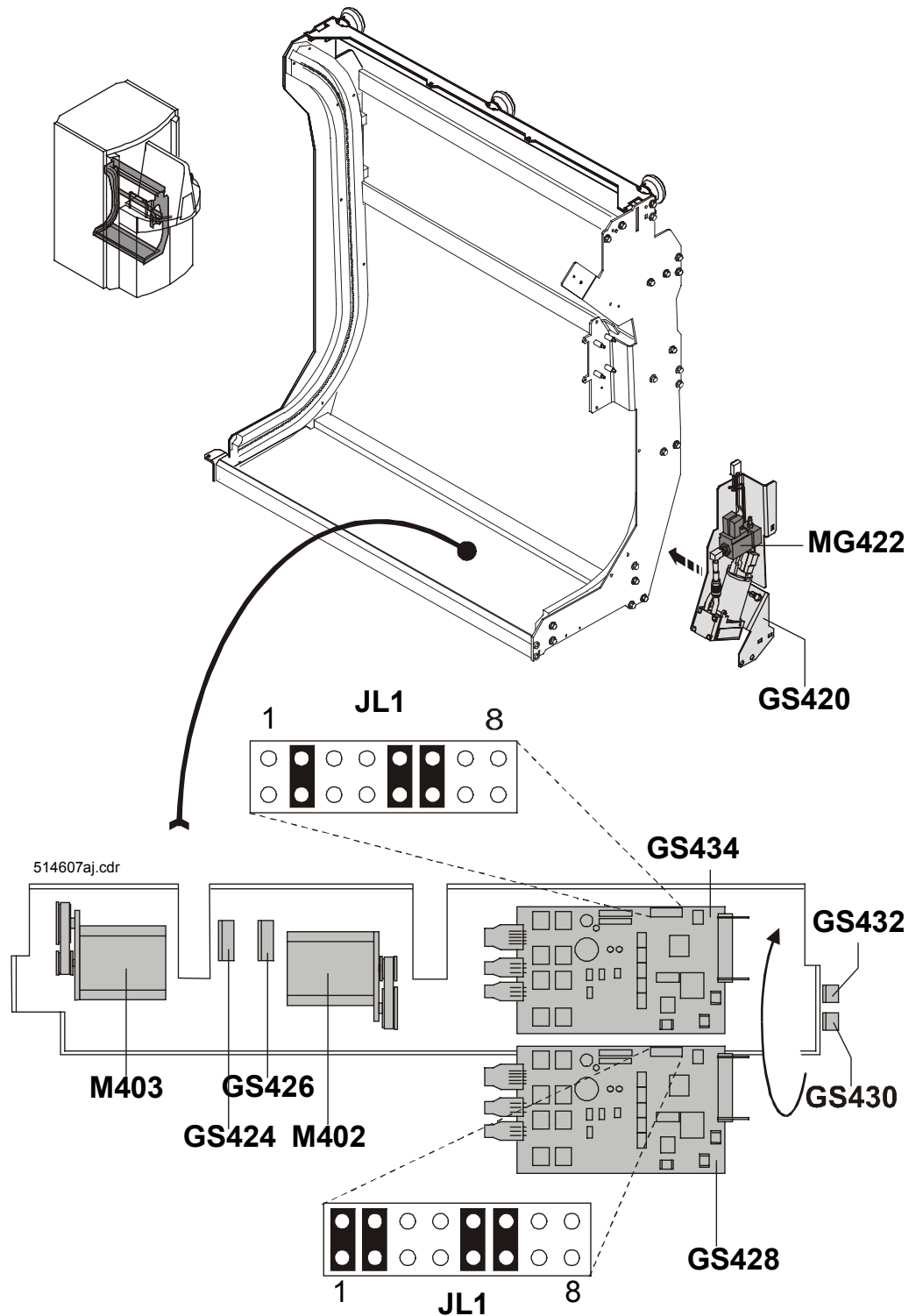
## Table of Components

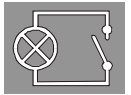
Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
300	M300	cPCI-RACK-FAN	cPCI-Rack: Fan	3/C6
300	GS300	BACKPLANE	cCPI-Rack: Backplane	3/D1–D6
300	GS302	HARDDISK	cCPI-Rack: Harddisk drive	3/B1–B2
300	GS304	FLOPPY	cCPI-Rack: Floppy drive	3/B2
300	GS306	cPCI-POWER	cCPI-Rack: Power unit	3/E6
300	GS310	SCAN-CTRL- MASTER	Scan Master Board	3/E2–E4
300	GS312	CPU-ARIEL	CPU-Ariel	3/E1–E2
300	GS314	IOBUS-DISTRIB (see pages 2/3)	I/O-BUS distributor board	3/G5–G6
300	ST319	ETHERNET (see pages 2/3)	Ethernet connector	3/H2
700	M701	ERASURE-UNIT- FAN (see pages 26/27)	Erasure Unit Fan	7/E2–F2



## 7 IP – Transport Unit Prescan (Assembly 400)

### 7.1 Diagram

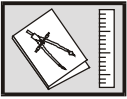




## 7.2

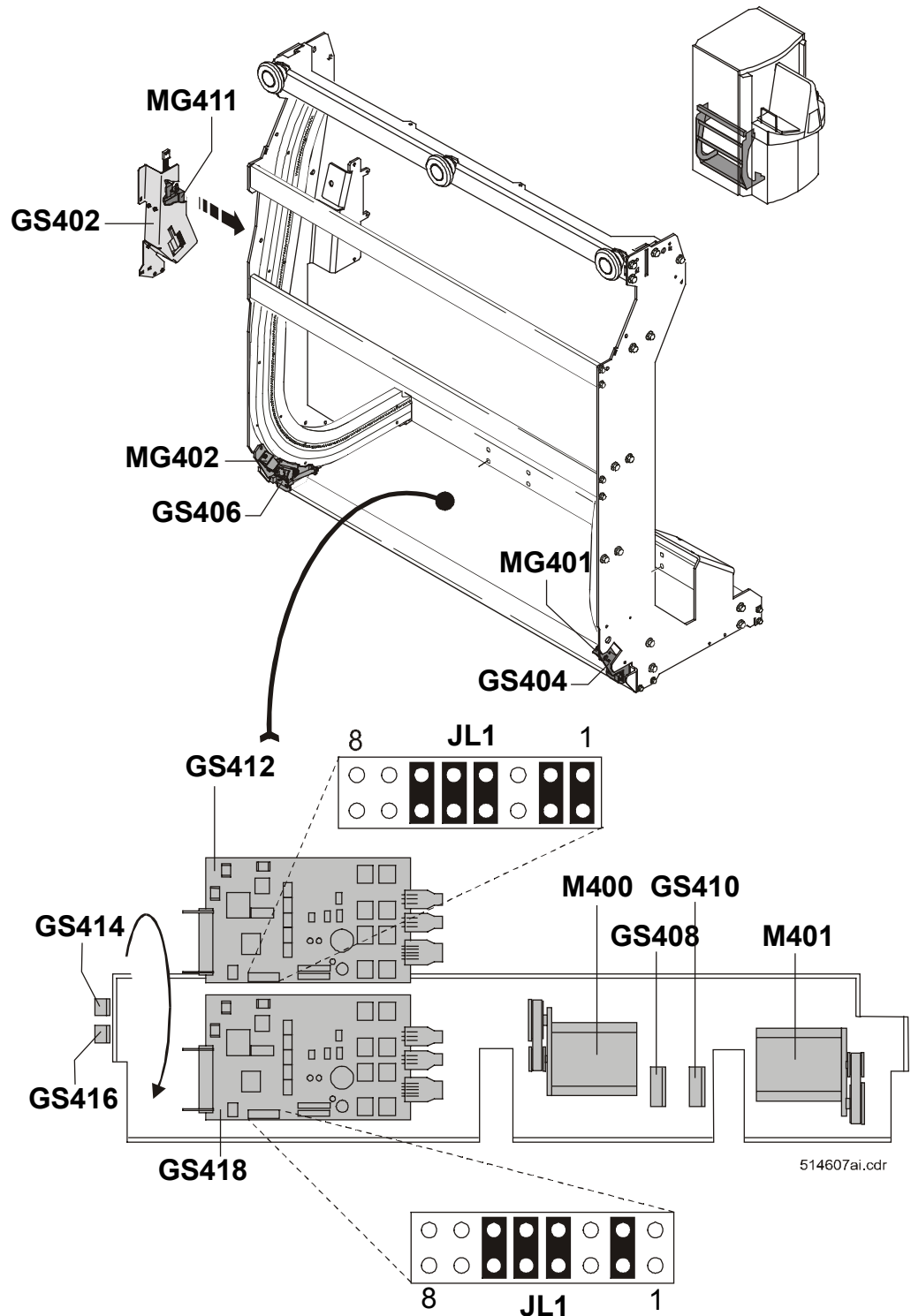
## Table of Components

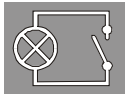
Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
400	M402	PRE-SUCT-DRIVE	Prescan suction motor	4/H3
400	M403	PRE-SLED-DRIVE	Prescan robot motor	4/H2
400	MG422	SOL-VALE-PRE	Solenoid valve - prescan	4/H5
400	GS420	PUMP-PRESC	Vacuum pump - prescan	4/H4–H5
400	GS424	PRE-SUC-POS-LS	Suction position – prescan (light barrier)	4/E3–F3
400	GS426	PRESC-SUCT-O-LS	Suction homeposition – prescan (light barrier)	4/F3
400	GS428	PRE-SUCTION-BD	Prescan suction board	4/G2–H2
400	GS430	PRE-SLEDPOS-LS	Robot - workposition – prescan (light barrier)	4/E2–F2
400	GS432	PRESC-SLED-O-LS	Robot homeposition - prescan (light barrier)	4/F2
400	GS434	PRESCAN-SLED-BD	Prescan robot board	4/G1–H2



## 8 IP – Transport Unit Postscan (Assembly 400)

### 8.1 Diagram

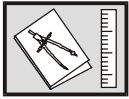




## 8.2

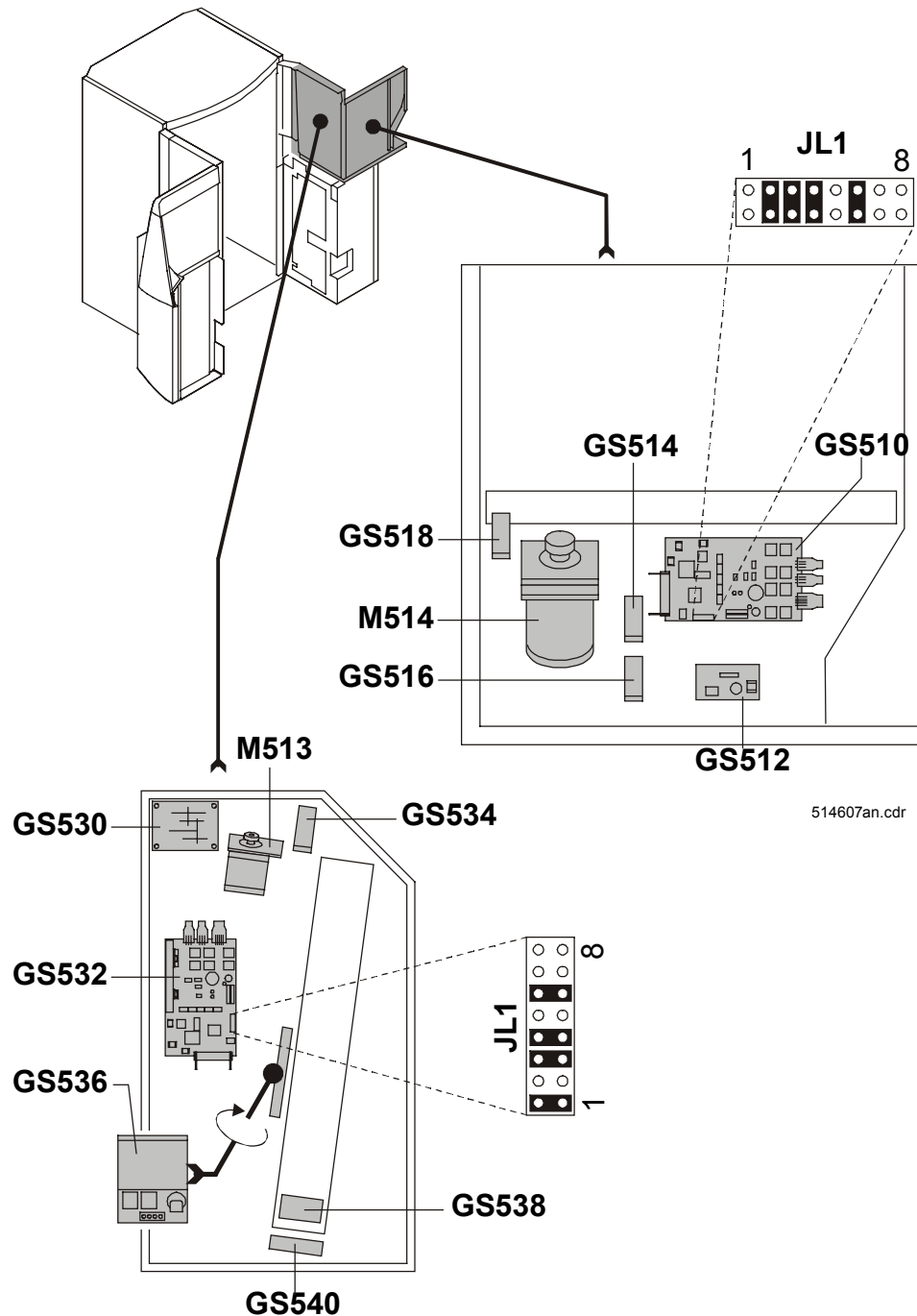
## Table of Components

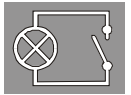
Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
400	M400	POST-SUCT-DRV	Postscan suction motor	4/D2
400	M401	POST-SLED-DRV	Postscan robot motor	4/D1
400	MG401	POINDS-MG-LEFT	Solenoid valve for parking position robot - left	4/A3
400	MG402	POINDS-MG- RIGHT	Solenoid valve for parking position robot - right	4/D3
400	MG411	SOL-VALE-POST	Solenoid valve – postscan	4/D5–E5
400	GS402	PUMP-POSTSC	Vacuum Pump - postscan	4/D4–D5
400	GS404	POINDS-LEFT-LS	Parking position for robot – left (light barrier)	4/A4
400	GS406	POINDS-RIGHT-LS	Parking position for robot – right (light barrier)	4/D4
400	GS408	POST-SUCT-POS- LS	Suction position - postscan (light barrier)	4/A2
400	GS410	POST-SUCT-O-LS	Suction homeposition (light barrier)	4/B2
400	GS412	POSTSC-SUCT-BD	Postscan suction board	4/C2–D2
400	GS414	POST-SLEDPOS- LS	Robot workposition - postscan (light barrier)	4/A1
400	GS416	POST-SLED-O-LS	Robot homeposition – postscan (light barrier)	4/B1
400	GS418	POST-SLED-BD	Postscan robot board	4/C1–D1



## 9 Input Buffer (Assembly 500)

### 9.1 Diagram

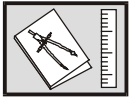




## 9.2

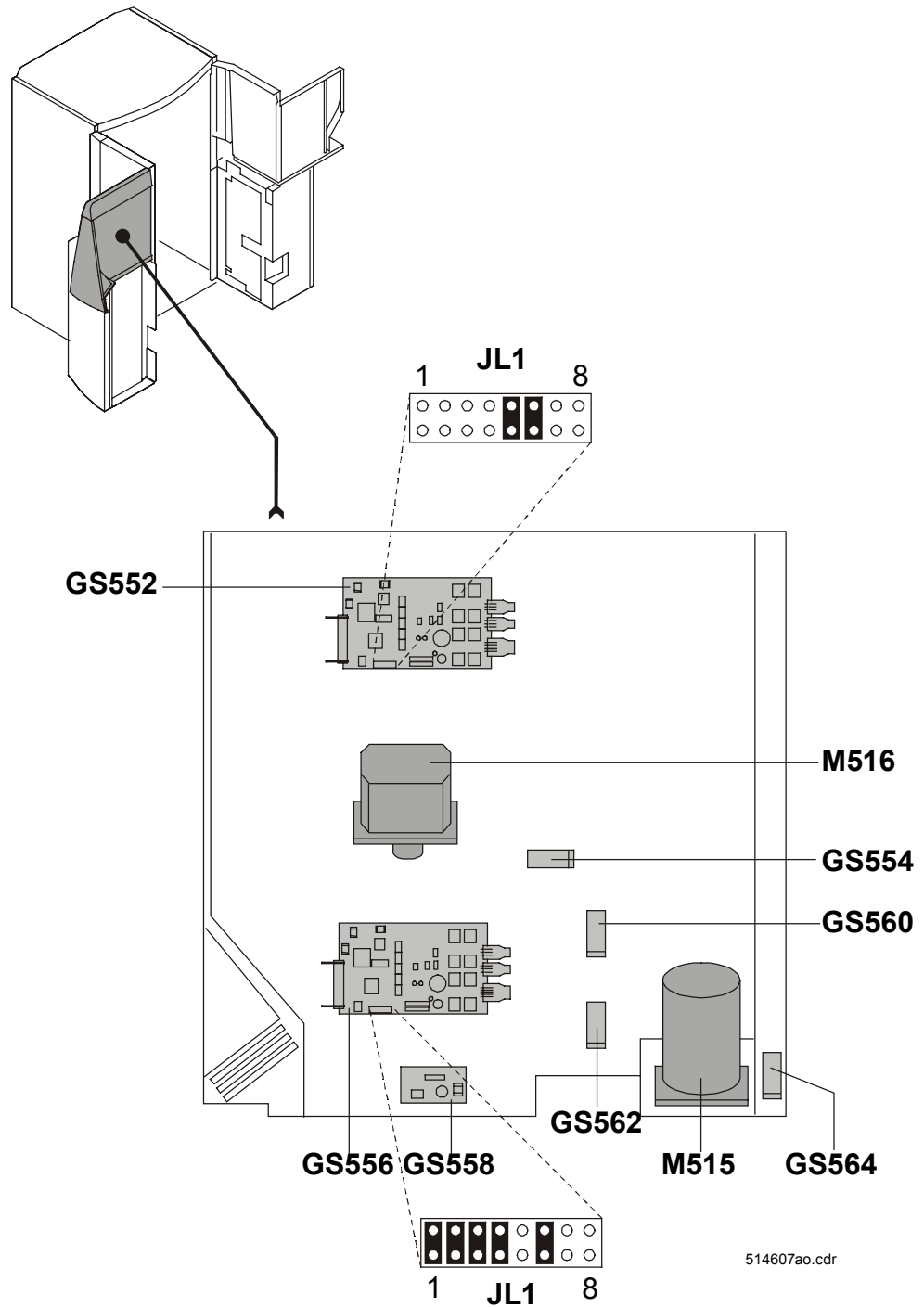
## Table of Components

Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
500	M513	IBUFF-DOOR-DRV	Input buffer door motor	5/G3
500	M514	INBUFF-BLT-DRV	Input buffer belt motor	5/D3
500	GS510	INBUFF-BELT-BD	Input buffer belt board	5/D4–D5
500	GS512	INBUFF-CASS-DET	Input buffer cassette detection board	5/E5
500	GS514	INBUFF-CASS-DET (receiver)	Input buffer cassette detection (light barrier)	5/E6
500	GS516	INBUFF-CASS-DET (transmitter)	Input buffer cassette detection (light barrier)	5/D6–E6
500	GS518	INBUFF-BELT-LS	Input buffer belt-position (light barrier)	5/D6
500	GS530	EMERGENCY NODE	Emergency Node	5/H6
500	GS532	INBUFF-DOOR-BD	Input buffer door board	5/G4–G5
500	GS534	INBUFF-DOOR-LS	Input buffer door position (light barrier)	5/G6
500	GS536	RF-TAG-READER	RF-tag Reader	5/H3
500	GS538	RF-TAG-ANTENNA	RF-tag antenna	5/H4–H6
500	GS540	CASS-DOT-DET	Cassette Dot Detection (to recognize ADC cassettes)	5/F6

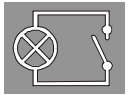


## 10 Output Buffer (Assembly 500)

### 10.1 Diagram



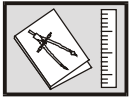
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## 10.2

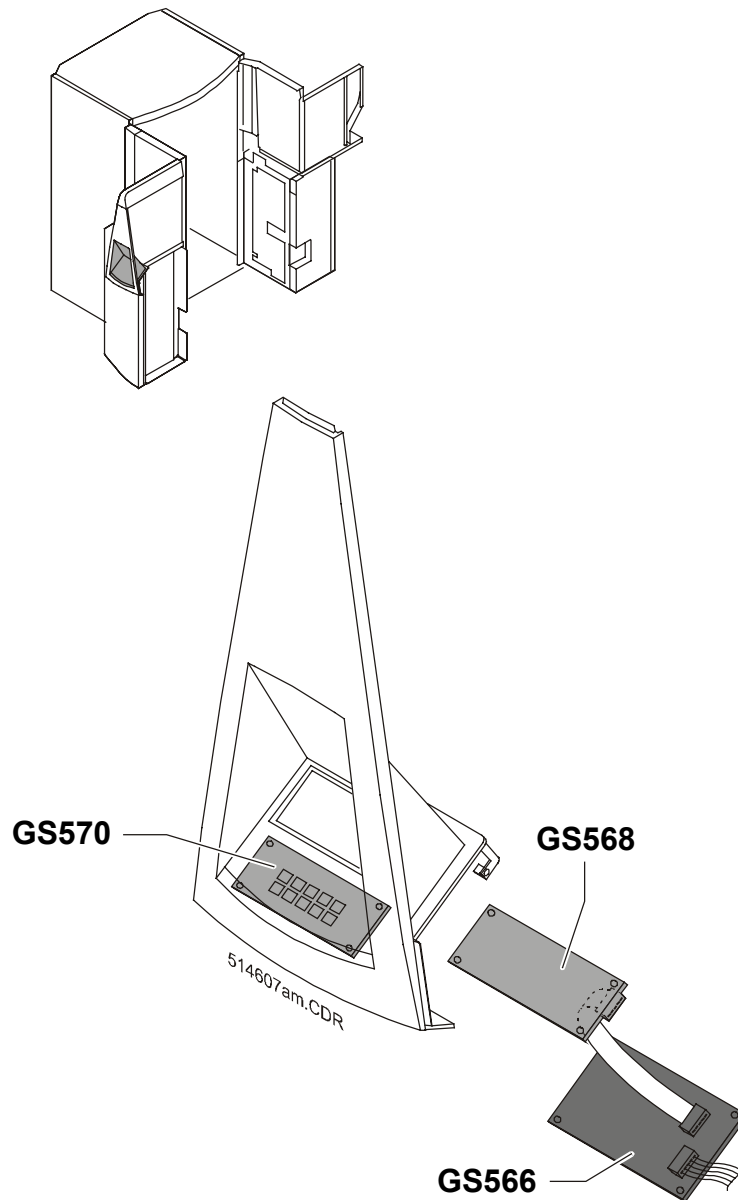
## Table of Components

Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
500	M515	OUTB-ROLL-DRV	Output buffer roller drive motor	5/C3
500	M516	OUTB-PUSH-DRV	Output buffer push drive motor	5/A3
500	GS552	OUTBUFF-PUSH-BD	Output buffer push board	5/A4–A5
500	GS554	OUTBUFF-PUSH-LS	Output buffer push position (light barrier)	5/A6
500	GS556	OUTBUFF-ROLL-BD	Output buffer roller board	5/B4–C5
500	GS558	OBUFF-CASS-DET	Output buffer cassette Detection board	5/B5
500	GS560	OBUFF-CASS-DET (receiver)	Output buffer cassette detection (light barrier)	5/B6
500	GS562	OBUFF-CASS-DET (transmitter)	Output buffer cassette detection (light barrier)	5/A6
500	GS564	OUTBUFF-ROLL-LS	Output buffer roller position (light barrier)	5/C6



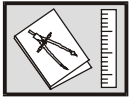
## 11 Operation Terminal (Assembly 500)

### 11.1 Diagram



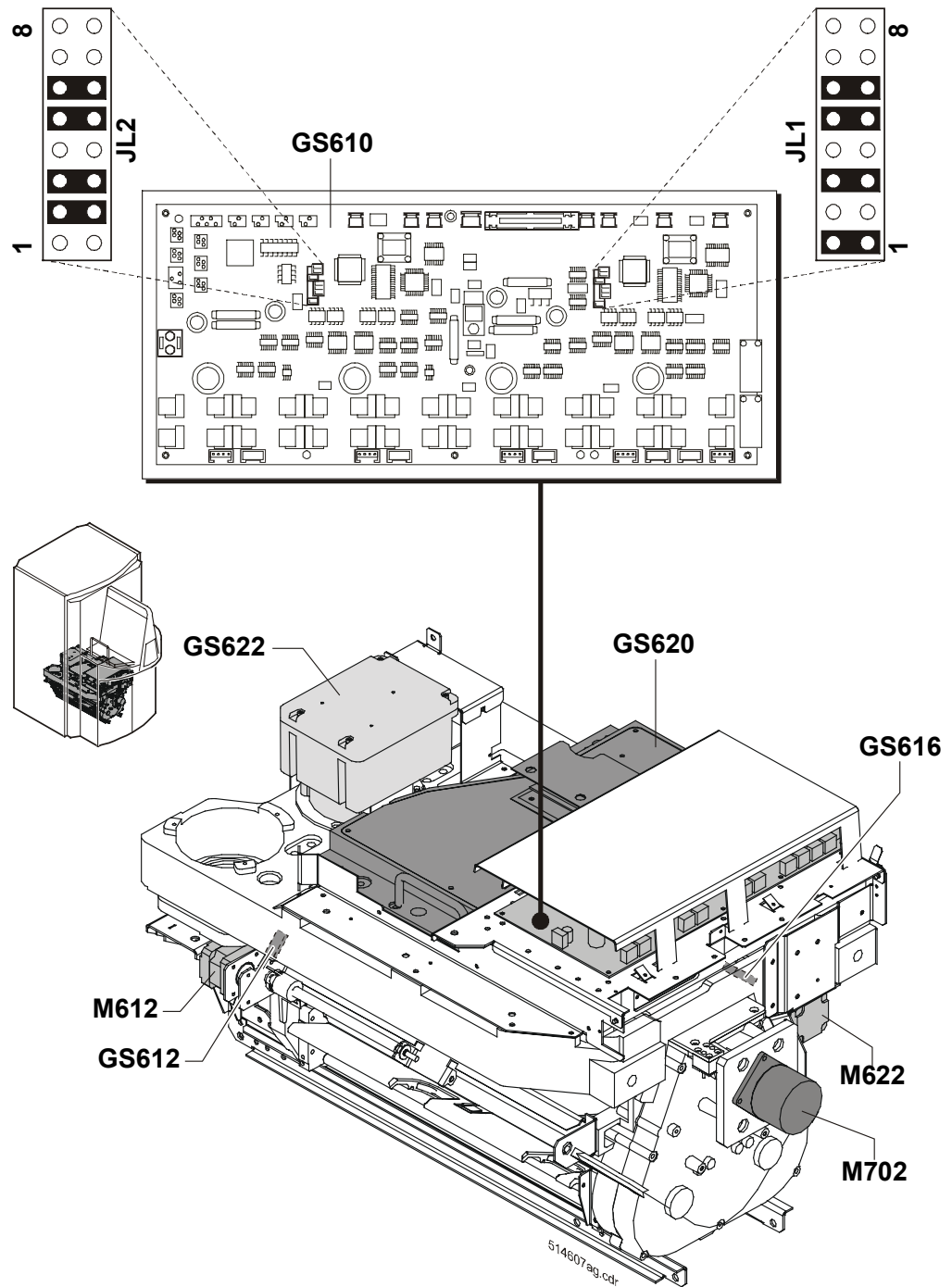
**11.2****Table of Components**

<b>Ass.</b>	<b>Abbreviation</b>	<b>Designation (also used by diagnosis Mode)</b>	<b>Function</b>	<b>Circuit diagram page/ coord.</b>
500	GS566	LCD-TERMINAL- BD	LCD-Terminal Board	5/B1–B2
500	GS568	DISPLAY-LCD- MOD	Display LCD Module	5/A2
500	GS570	FLACHKEYBOARD	Keyboard	5/A1–B1



## 12 Optic Module – Top View (Assembly 600)

### 12.1 Diagram

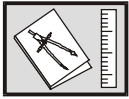




## 12.2

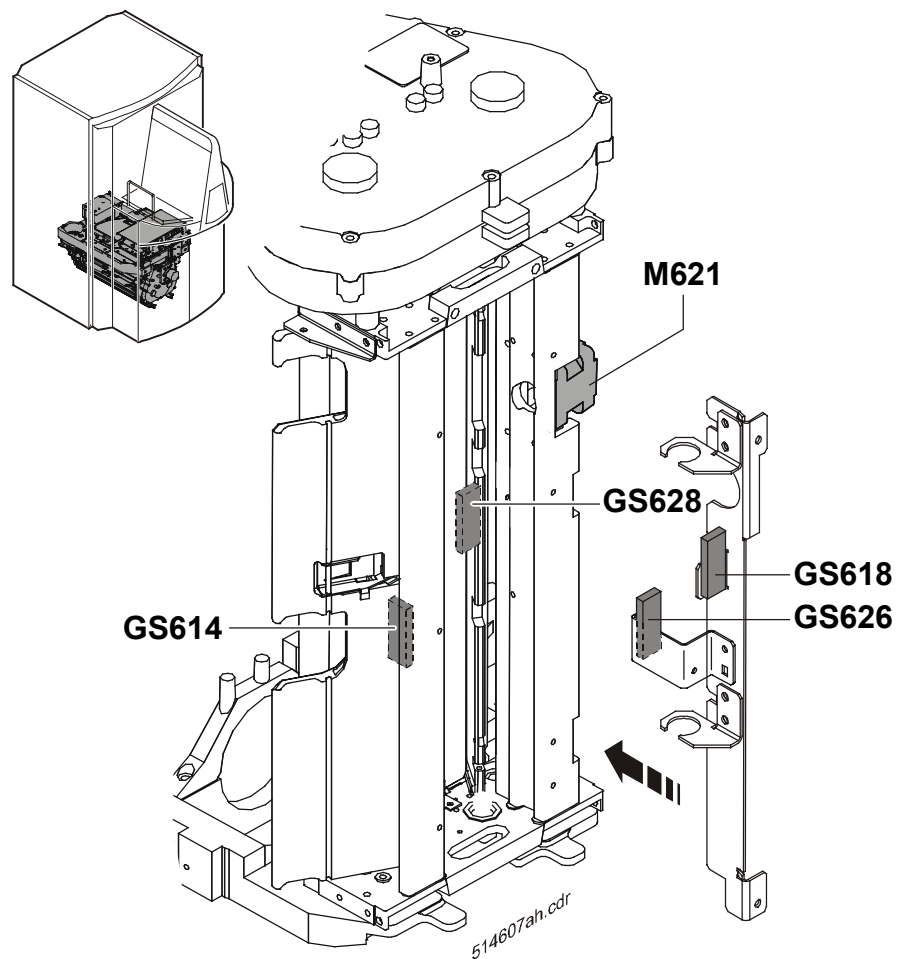
## Table of Components

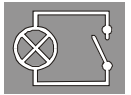
Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
600	M702	SLOWSCAN-DRV	Slowscan drive motor	6/E1
600	M612	POST-ALIGN-DRV	Postscan alignment drive motor	6/D1
600	M622	PRE-ALIGN-DRV	Prescan alignment drive motor	6/G1
600	GS610	5FOLD-ST-SCAN	5fold stepper motor board of scan unit	6/D3–H3
600	GS612	POST-ALIGN-LS	Postscan alignment position (light barrier)	6/D4–E4
600	GS616	PRE-ALIGN-LS	Prescan alignment position (light barrier)	6/H4
600	GS620	OPTIC MODUL	Optic Module	6/B1–B2
600	GS622	PM-TUBE	Photomultiplier Tube	6/B4–C4



## 13 Optic Module – Bottom View (Assembly 600)

### 13.1 Diagram

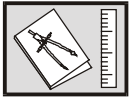




## 13.2

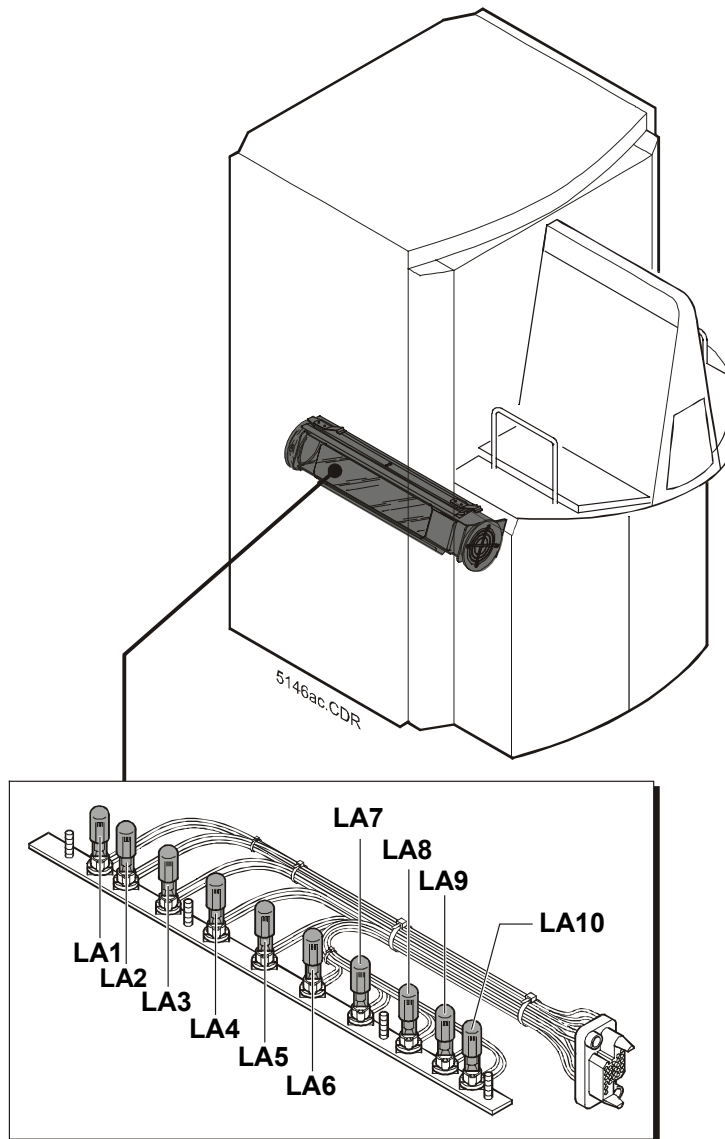
## Table of Components

Ass.	Abbreviation	Designation (also used by diagnosis mode)	Function	Circuit diagram page/ coord.
600	M621	ROLL-LIFT-DRV	Scan roller lift drive motor	6/H1
600	GS614	POST-IP-DET-LS	Postscan IP-detection (light barrier)	6/E4
600	GS618	ROLLER-LIFT-LS	Roller-Lift-Pos (Gap light barrier)	6/H4
600	GS626	BEGIN-O-SCAN-LS (transmitter)	Begin of scan position (light barrier)	6/F4
600	GS628	BEGIN-O-SCAN-LS (receiver)	Begin of scan position (light barrier)	6/G4



## 14 Erasure Unit (Assembly 700)

### 14.1 Diagram

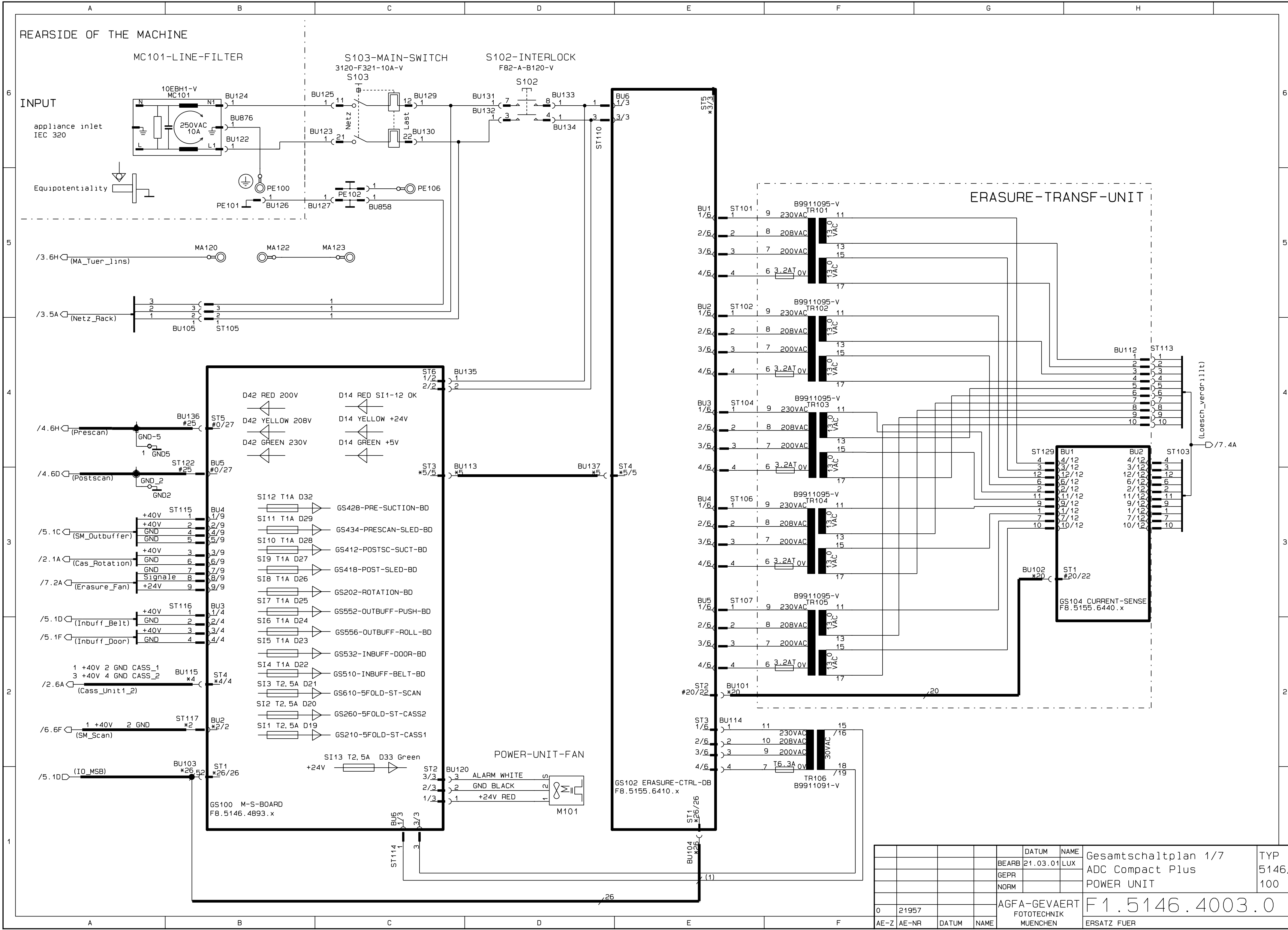


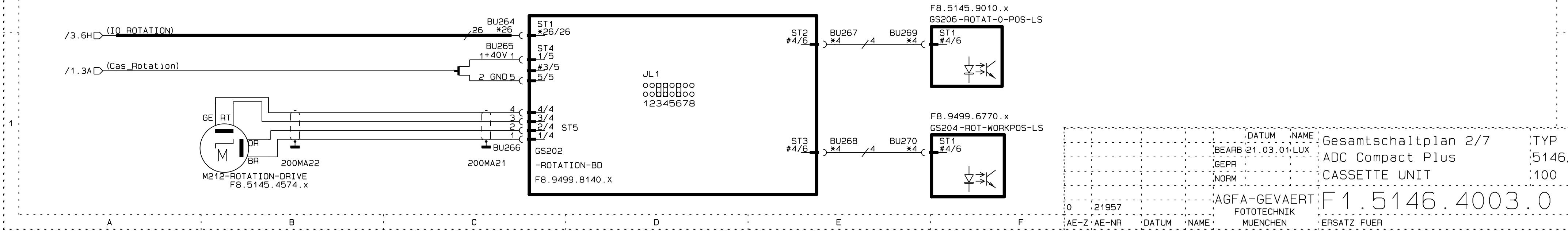
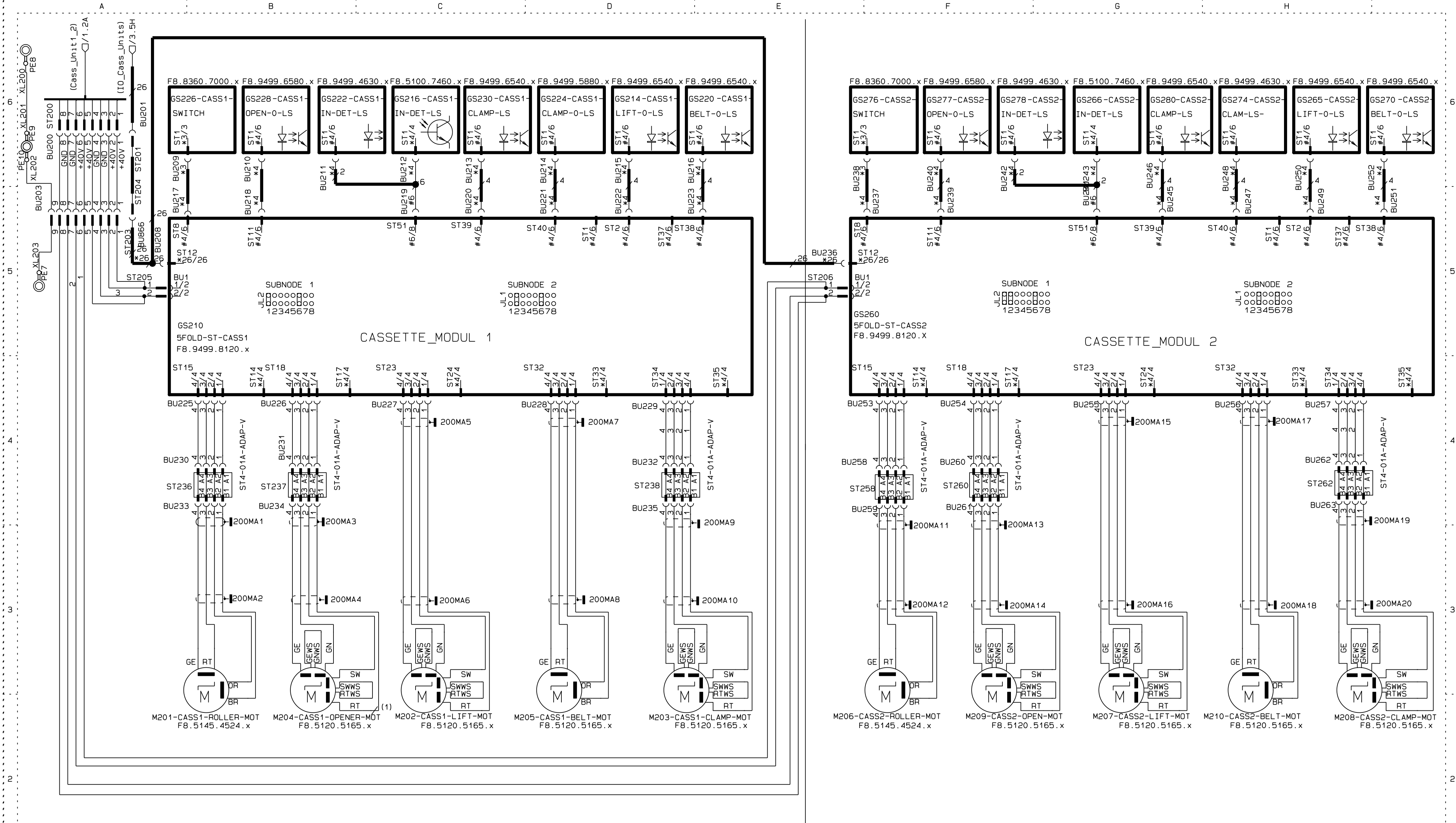
**14.2****Table of Components**

Ass.	Abbreviation	Designation (also used by diagnosis Mode)	Function	Circuit diagram page/ coord.
700	LA1 – LA10	-----	Lamps of the erasure unit	7/E5–H5
700	M701	ERASURE-UNIT-FAN (see pages 10/11)	Erasure Unit Fan	7/F2

**B****Circuit Diagrams of ADC Compact Plus Digitizer****F1.5146.4005.0 (sheet 1 – 7)**

(see the following pages)





Gesamtschaltplan 2/7		TYP
ADC Compact Plus		5146/
CASSETTE UNIT		100
F 1.5146.4003.0		
AGFA-GEVAERT		FOTOTECHNIK
MÜNCHEN		ERSATZ FÜR

